# Columbia/Snake Mainstem TMDL

Process and Schedule August 21, 2002

## Geographic Scope

- **Columbia River from the Canadian** border (RM 745.0) to the Pacific Ocean.
- Snake River from it's confluence with the Salmon River (RM 188) to it's confluence with the Columbia River (Columbia RM 324.3).

#### TMDLs under this effort

- **\*\*Columbia/Snake River**Mainstem Temperature

  TMDL
- **\*\*Lower Columbia River Total Dissolved Gas TMDL**
- **\*\*Lake Roosevelt/Mid**Columbia/Snake River Total
  Dissolved Gas TMDL

# State and Tribal Agencies with a CWA role in the Project Area

#### **States**

- **XIdaho Department of Environmental Quality**
- **\*\*Oregon Department of Environmental Quality**
- **\*Washington Department of Ecology**
- **Tribes**
- **\*\*Colville Confederated Tribes (EPA promulgated standards)**
- **Spokane Tribe of Indians (tribal approved standards)**
- **\*\*Other Columbia Basin Tribes federal trust responsibility**

#### Roles of Key Players

- **X** Oregon and Washington developing dissolved gas TMDL for Lower Columbia 9/2002
- **\*\*** Washington developing dissolved gas TMDL for Mid-Columbia and Lower Snake TMDL 6/2003
- **EPA** is taking technical lead on temperature TMDL expected to be completed 6/2003
- **EPA** developing dissolved gas TMDL for portions within tribal waters
- **EPA** in lead to work with tribes

#### Consultation and Coordination with Columbia Basin Tribes

- **# July 2001 Letter to Tribal Chairs committing to tribal consultation and coordination process and providing an update on process**
- # Grant to National Fish and Wildlife Foundation
  # September 2001 Meeting/CRITFC
- **# February 2002 letter to Tribal Chairs notifying them** of the opportunity to consult
- **\*\*Contract Support to Upper Columbia Tribes**
- **#Other meetings Spokane, Umatilla**

#### Lake Roosevelt TDG TMDL

- # "Tribal waters" require EPA to develop this effort
- **# Build upon temperature modeling efforts**
- **\*\*Washington Ecology committed to coordinate with the Tribes**
- **Spokane and Colville are key near term** discussions to scope out this effort
- **\*\* Meeting with Bureau at Grand Coulee November 5/6, 2001**
- **X** Coordinate with Transboundary Gas Group

# Process with State, Tribes and Others

- **# Monthly Meetings in 2001 and 2002** 

  - Good participation
- # Technical workgroup Temperature TMDL
- # Meetings with others
  - PUDs, Pulp and Paper, Irrigation Districts
  - Congressional Staff D.C. and Region
  - △Action Agencies Meeting on Draft Preliminary-September 4
  - ESA Coordination/Consultation

#### **Public Process**

**\*Pre-decisional informational meetings to** share information as TMDLs are developed **#July 2001 - Spokane and Portland #October 2001 - Lewiston and Pasco #March 2002 - Vancouver and Toppenish September/October 2002 - Lewiston,** Kennewick and Portland

#### EPA Website - Public Access

- **#Extensive compilation of materials** 

  - Public Workshop Summaries
  - ✓ Will contain the Draft Preliminary Temperature TMDL - after 9/13

#### Temperature TMDL Schedule

- **September 13 Draft Preliminary Temperature TMDL**
- **X September 25,26 and October 1 Public workshops**
- **# Early November Draft Temperature TMDL**
- November January 2003- 90 day comment period/formal public hearings
- # February April 2003 Respond to comments
- **3 € May 2003 Final TMDL**

## Scope and WQS

- #Entire Columbia River in the U.S. Snake River from the Salmon River to the Columbia.
- **XWQS** allow very small temperature increases over natural temperature due to human activity.
- **#OR WQS** for the lower river are the most stringent and drive the TMDL.

## Scope and WQS (cont.)

#The TMDL is established to prevent temperature increases greater than 0.14 °C in the lowest reaches when site potential temperature would exceed 20 °C from July through September or 12.8 °C from October through June.

#### TMDL Allocations

- **X**The rivers are divided into 19 reaches.
- **#**Each reach receives a gross allocation in terms of temperature increase over site potential.
- #Dams are allowed no temperature increase over site potential.

## TMDL Allocations (cont.)

- #Point Sources with individual permits are generally allowed their existing discharge.
- #Point Sources with general permits are allowed their existing discharge.
- #Tributaries are allowed their existing loads.
- **X**Little future growth is available.
- When point source permits are re-issued, the facilities may receive tighter limits than in the TMDL after a technology analysis and a mixing zone analysis.

## Why no allocation for dams and full allocations for point sources?

**\*\*Dams have much greater impacts on temperature than point sources.** 

**X**Limiting point source loads would not benefit the dams.

**#**See Figures 2 and 3.

### Impacts to river users

#Point sources will receive permit limits for temperature and are at risk of having their loads reduced.

#Dams are required to make drastic improvements in their effect on temperature. Puts them between a rock and a hard place.

## Possible Issues (cont.)

- **#Tributaries maintained at existing loads.**
- **#General permits maintained.**
- \*\*Not all sources of temperature problems are thoroughly evaluated and accounted for in the TMDL

  - Tributaries
  - △ Loss of hyporheic zones
  - Urban heating
  - General permits

## Possible Issues (cont.)

**XVarious** Technical Issues

**#One dimensional model** 

**#Tributary and boundary conditions** 

**\*\*Nothing can be done about dams** 

#### What Comes After TMDL?

- **#TMDL** provides strong technical/scientific framework for future decisions
- **\*\*Possible Role of EPA requires Executive** involvement
  - Corps/DOJ Water Quality Plan
  - Bureau of Reclamation
  - Office of Water/CEQ
- #Decisions should be part of an overall Columbia River Strategy (fish tissue, Superfund, future toxics TMDLs)